

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2011 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>RD1500</b>	Overall LMA Rating	Total LMA Miles				
<b>Reclamation District No. 1500 Sutter Basin</b>	<b>A</b>	<b>54.35</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Trim / Thin Trees	0.46		0.46	0.85%		
Encroachments	0.15		0.15	0.28%	5.65	1.31
Animal Control	0.11		0.11	0.20%		
Erosion / Bank Caving	0.01		0.01	0.02%		
Crown Surface / Depressions / Rutting	0.02		0.02	0.04%		
<i>Concrete Floodwalls</i>						
Underseepage Relief Wells	0.01		0.01	0.02%		
<i>Supplemental</i>						
USACE Erosion Survey	0.40		0.40	0.74%		
<i>LMA Totals:</i>	1.16	0.00	1.16	2.13%	5.65	1.31

  

<b>Unit No. 01 Sacramento River LB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD1500</b>	<b>A</b>	<b>33.58</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Trim / Thin Trees	0.46		0.46	1.37%		
Encroachments	0.14		0.14	0.42%	5.65	1.31
Animal Control	0.11		0.11	0.33%		
Erosion / Bank Caving	0.01		0.01	0.03%		
Crown Surface / Depressions / Rutting	0.01		0.01	0.03%		
<i>Supplemental</i>						
USACE Erosion Survey	0.40		0.40	1.19%		
<i>Unit Totals:</i>	1.13	0.00	1.13	3.37%	5.65	1.31

  

<b>Unit No. 02 Sutter Bypass RB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD1500</b>	<b>A</b>	<b>20.77</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Encroachments	0.01		0.01	0.05%		
Crown Surface / Depressions / Rutting	0.01		0.01	0.05%		
<i>Concrete Floodwalls</i>						
Underseepage Relief Wells	0.01		0.01	0.05%		
<i>Unit Totals:</i>	0.03	0.00	0.03	0.14%	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2011 Levee Inspection Results**

**Reclamation District No. 1500 Sutter Basin**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 1500 Sutter Basin**

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	33.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/26/2011 - 4/28/2011		10/5/2011 - 11/21/2011	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Jack Bailey RD 1500		Jack Bailey RD 1500	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River							Left	33.58	10/05/2011 11/21/2011	John Williamson
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.03	0.03	Earthen Levee	Encroachments	LS	M	Firewood	38.761045 ° -121.675225 °	38.761045 ° -121.675225 °	15 Y
2	0.03	0.03	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: There are several rodent holes in the area.	38.761015 ° -121.675235 °	38.761015 ° -121.675235 °	19 Y
3	0.05	0.32	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: The walnut trees after harvest need to be trimmed up 5' from the levee.	38.761060 ° -121.675505 °	38.763268 ° -121.679098 °	53 Y
4	0.05	0.23	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees over roadway to at least 12 feet above ground level.	38.761058 ° -121.675599 °	38.762106 ° -121.678275 °	210
5	0.07	0.07	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	38.761071 ° -121.675957 °	38.761071 ° -121.675957 °	5 Y
6	0.10	0.10	Earthen Levee	Encroachments	LS	M	Firewood	38.761089 ° -121.676345 °	38.761089 ° -121.676345 °	211 Y
7	0.10	0.10	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: There are burrow holes are on the landside too. There are depressions on crown and appears to be part of the burrows.	38.761090 ° -121.676346 °	38.761090 ° -121.676346 °	212 Y
8	0.49	0.49	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.764442 ° -121.681621 °	38.764442 ° -121.681621 °	213 Y
9	0.50	0.50	Earthen Levee	Encroachments	LS	C	Prunings	38.764474 ° -121.681819 °	38.764474 ° -121.681819 °	35
10	1.30	1.30	Earthen Levee	Encroachments	WS	PO	Buildings Inspector Comments: pump house	38.769702 ° -121.691088 °	38.769702 ° -121.691088 °	3 Y
11	1.32	1.32	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2006 - New erosion upstream, new bank failures near levee but still fairly wide berm in most places. 2008 - Large berm, questionable as to if it should remain in the inventory. 2010 - Minor new erosion, old cobble starting to fail. 2011: Cobble continues to unravel and additional slumping. [2011 Site ID: SAC_86-3_L]	38.770390 ° -121.690553 °	38.777282 ° -121.685841 °	1 Y
12	1.34	1.34	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: retaining wall into levee	38.770003 ° -121.690607 °	38.770003 ° -121.690607 °	4 Y
13	2.28	2.28	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2010 - The upstream end of the repair site at 87.0. Repair did not extend far enough upstream. 2011: New erosion pockets. [2011 Site ID: SAC_87-1_L]	38.781962 ° -121.688033 °	38.784936 ° -121.690033 °	2 Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Sacramento River						Left	33.58	10/05/2011 11/21/2011	John Williamson	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
14	2.39	2.39	Earthen Levee	Encroachments	WS	M	Pipe	38.783059 ° -121.688068 °	38.783059 ° -121.688068 °	214 Y
15	2.57	3.83	Earthen Levee	Encroachments	LS	CO	Agricultural Ditch	38.785351 ° -121.689075 °	38.797174 ° -121.693045 °	963 Y
16	3.22	3.22	Earthen Levee	Encroachments	WS	M	Tree or limb	38.791857 ° -121.687451 °	38.791857 ° -121.687451 °	215 Y
17	3.73	3.73	Earthen Levee	Encroachments	WS	PO	Buildings	38.797139 ° -121.691137 °	38.797139 ° -121.691137 °	6 Y
18	3.98	3.98	Earthen Levee	Encroachments	LS	PO	Buildings	38.797607 ° -121.695862 °	38.797607 ° -121.695862 °	7 Y
19	4.01	4.01	Earthen Levee	Encroachments	LS	PO	Landscaping	38.797827 ° -121.695985 °	38.797827 ° -121.695985 °	8 Y
20	4.03	4.03	Earthen Levee	Encroachments	WS	PO	Buildings Inspector Comments: pump house concrete building	38.798048 ° -121.696148 °	38.798048 ° -121.696148 °	9 Y
21	4.04	4.16	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.798572 ° -121.696392 °	38.800080 ° -121.696653 °	54
22	4.20	4.20	Earthen Levee	Encroachments	LS	PO	Buildings	38.800550 ° -121.696752 °	38.800550 ° -121.696752 °	11 Y
23	4.65	4.65	Earthen Levee	Encroachments	LS	PO	Landscaping	38.803632 ° -121.702770 °	38.803632 ° -121.702770 °	12 Y
24	5.23	5.23	Earthen Levee	Encroachments	WS	PO	Buildings Inspector Comments: pump house	38.802342 ° -121.712995 °	38.802342 ° -121.712995 °	13
25	5.38	5.38	Earthen Levee	Encroachments	LS	CO	Landscaping	38.803240 ° -121.715402 °	38.803240 ° -121.715402 °	14 Y
26	5.67	5.75	Earthen Levee	Encroachments	WS	PO	Buildings Inspector Comments: Sting Rayz Beach Boardwalk Marina waterside berm	38.803005 ° -121.720380 °	38.803238 ° -121.721847 °	52 Y
27	7.15	7.15	Earthen Levee	Encroachments	LS	M	Prunings	38.823316 ° -121.722753 °	38.823316 ° -121.722753 °	216 Y
28	7.21	7.21	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.824119 ° -121.722776 °	38.824119 ° -121.722776 °	217 Y
29	7.57	7.57	Earthen Levee	Encroachments	LS	M	Equipment	38.828975 ° -121.724265 °	38.828975 ° -121.724265 °	16 Y
30	7.66	7.66	Earthen Levee	Encroachments	LS	PO	Landscaping	38.830260 ° -121.725357 °	38.830260 ° -121.725357 °	17 Y

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
31	8.30	8.30	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1997 - Damage to cobble revetment on top left bank and toe damage. 2004 - Site is pretty minor. 2010 - Cobbles continue to deteriorate. 2011: Minor new erosion at the toe. [2011 Site ID: SAC_92-8_L]	38.838464 ° -121.730205 °	38.840347 ° -121.726857 °	10 Y
32	8.43	8.43	Earthen Levee	Erosion / Bank Caving	LS	M	Schedule repair of erosion site prior to the next inspection.	38.839475 ° -121.728750 °	38.839475 ° -121.728750 °	56 Y
33	8.79	8.79	Earthen Levee	Encroachments	LS	PO	Buildings	38.842673 ° -121.726442 °	38.842673 ° -121.726442 °	18 Y
34	9.14	9.14	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage. Inspector Comments: This is a county road (Cranmore RD. ) on the crown. The county keeps adding asphalt to fill the depression.	38.847210 ° -121.727825 °	38.847210 ° -121.727825 °	221 Y
35	11.43	11.43	Earthen Levee	Encroachments	LS	PO	Landscaping	38.866762 ° -121.746125 °	38.866762 ° -121.746125 °	20 Y
36	11.81	11.81	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1997 - No toe on the large upstream rubble (mix of broken concrete, bricks, rock, and steal) - should be replaced. Oversized bank. 2001 - New slump at the downstream end. 2003 - Some minor bank retreat at the downstream end. 2004 - Some new retreat at the downstream end. 2006 - Some new erosion, mainly on the steep slope and scarps. (Pumping station is not part of the erosion site.) 2010 - Minor new erosion. 2011: Minor new erosion at the toe. [2011 Site ID: SAC_95-8_L]	38.871853 ° -121.749330 °	38.870581 ° -121.752059 °	29 Y
37	11.93	11.93	Earthen Levee	Encroachments	WS	M	Debris	38.872220 ° -121.749785 °	38.872220 ° -121.749785 °	219 Y
38	11.93	11.93	Earthen Levee	Erosion / Bank Caving	WS	W	Note and monitor erosion site.	38.871972 ° -121.749765 °	38.871972 ° -121.749765 °	55
39	12.02	12.02	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2000 - Vertical Modesto Formation bank with mass failure. 2003 - Upstream end has some new bank retreat. 2004 - Upstream end is worse. 2006 - Some new erosion, mainly on the steep slope and scarps. (Pumping station is not part of the erosion site.) 2010 - Some new erosion and deposition at upstream end, definite encroachments. 2011: Minor new erosion at the toe. [2011 Site ID: SAC_96-2_L]	38.870474 ° -121.752237 °	38.869139 ° -121.757108 °	34 Y
40	12.10	12.10	Earthen Levee	Encroachments	LS	M	Prunings	38.870920 ° -121.752417 °	38.870920 ° -121.752417 °	220 Y
41	12.15	12.15	Earthen Levee	Encroachments	WS	PO	Buildings	38.870562 ° -121.753335 °	38.870562 ° -121.753335 °	23 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Sacramento River						Left	33.58	10/05/2011 11/21/2011	John Williamson	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
42	12.31	12.31	Earthen Levee	Erosion / Bank Caving	WS	W	Note and monitor erosion site. Inspector Comments: wide berm	38.869700 ° -121.755945 °	38.869700 ° -121.755945 °	50
43	12.55	12.55	Earthen Levee	Encroachments	LS	M	Equipment	38.868717 ° -121.760133 °	38.868717 ° -121.760133 °	24 Y
44	12.93	12.93	Earthen Levee	Encroachments	CR	W	Equipment	38.865127 ° -121.765157 °	38.865127 ° -121.765157 °	25 Y
45	13.15	13.15	Earthen Levee	Encroachments	LS	CO	Buildings	38.863438 ° -121.768212 °	38.863438 ° -121.768212 °	26 Y
46	13.18	13.18	Earthen Levee	Encroachments	LS	M	Equipment Inspector Comments: tires	38.863081 ° -121.768781 °	38.863081 ° -121.768781 °	992 Y
47	13.98	14.28	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1997 - Intermittent toe failure of the hand placed riprap; failure of toe materials. 2011: No observed change. [2011 Site ID: SAC_99-0_L]	38.857239 ° -121.783771 °	38.861899 ° -121.784057 °	40 Y
48	14.09	14.09	Earthen Levee	Encroachments	CR	M	Firewood	38.857683 ° -121.782652 °	38.857683 ° -121.782652 °	27 Y
49	14.13	14.13	Earthen Levee	Encroachments	WS	M	Equipment	38.857792 ° -121.783265 °	38.857792 ° -121.783265 °	28 Y
50	14.35	14.35	Earthen Levee	Encroachments	LS	CO	Buildings Inspector Comments: Concrete stemwall into levee embankment.	38.860848 ° -121.783307 °	38.860848 ° -121.783307 °	30 Y
51	14.39	14.39	Earthen Levee	Encroachments	LS	CO	Landscaping	38.861513 ° -121.783588 °	38.861513 ° -121.783588 °	31 Y
52	14.86	15.93	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.865473 ° -121.789413 °	38.871752 ° -121.804257 °	969 Y
53	15.27	15.27	Earthen Levee	Encroachments	LS	PO	Fences Inspector Comments: Fence compound around sand separators at the toe.	38.866825 ° -121.794020 °	38.866825 ° -121.794020 °	22 Y
54	15.27	15.27	Earthen Levee	Encroachments	WS	M	Debris Inspector Comments: pile of rip rap and concrete needs to be placed	38.866827 ° -121.794020 °	38.866827 ° -121.794020 °	21 Y
55	15.94	15.94	Earthen Levee	Encroachments	WS	M	Equipment	38.871960 ° -121.804440 °	38.871960 ° -121.804440 °	32 Y
56	16.48	16.48	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: oleanders and other shrubs	38.875873 ° -121.812410 °	38.875873 ° -121.812410 °	33 Y
57	16.86	17.45	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.881092 ° -121.813713 °	38.887335 ° -121.808187 °	972 Y

**\* Location**

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**\*\* Rating**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
58	18.40	18.41	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2006 - Eddy flow and overtopping flow collide on the inside of a tight bend. Scour caused by converging flows created large scallop on the inside of a bend. 2007 - Site still looks bad. Would be a good candidate for a setback levee. 2008 - Some new deposition of sand on eddy bar. 2009 - Much of the site has filled in with sand deposition. Continuing to heal. 2010 - New deposition. 2011: There has been some deposition as well as erosion since last year. [2011 Site ID: SAC_103-4_L]	38.901199 ° -121.803225 °	38.900993 ° -121.803382 °	41 Y
59	18.50	18.50	Earthen Levee	Erosion / Bank Caving	WS	W	Note and monitor erosion site.	38.900873 ° -121.802680 °	38.900873 ° -121.802680 °	51 Y
60	18.51	18.51	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1997 - Pocket failures of cobble revetment toe; scallops of rock loss along the bank; irregular bankline developing. 2001 - Small scallops in the toe of the berm. 2005 - Still multiple erosion pockets in the toe. 2006 - Two new small slumps. 2011: Old cobble continue to fail causing minor slumping. [2011 Site ID: SAC_104-0_L]	38.901337 ° -121.801175 °	38.902721 ° -121.790677 °	43 Y
61	19.19	19.19	Earthen Levee	Encroachments	LS	PO	Buildings Inspector Comments: Concrete retaining wall toe of landside levee. Permit #10065	38.901570 ° -121.791235 °	38.901570 ° -121.791235 °	36 Y
62	19.22	19.22	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Concrete retaining wall along toe of landside levee. Permit #10065	38.901942 ° -121.790937 °	38.901942 ° -121.790937 °	37 Y
63	19.24	19.24	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1997 - Cobbles eroded off the clay materials; not much evidence of erosion on the toe; cobble loss on the toe. 2011: Some new minor erosion. [2011 Site ID: SAC_104-5_L]	38.904041 ° -121.790298 °	38.906697 ° -121.792796 °	44 Y
64	20.86	21.40	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.910177 ° -121.810352 °	38.913267 ° -121.803142 °	975 Y
65	21.22	21.22	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	38.911005 ° -121.804420 °	38.911005 ° -121.804420 °	57
66	21.29	21.29	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	38.911848 ° -121.803563 °	38.911848 ° -121.803563 °	58
67	21.69	21.91	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.916153 ° -121.806319 °	38.916127 ° -121.810326 °	59 Y
68	24.04	24.04	Earthen Levee	Encroachments	LS	PO	Buildings Inspector Comments: Some equipment at landside toe.	38.931838 ° -121.834437 °	38.931838 ° -121.834437 °	42 Y

**\* Location**

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**\*\* Rating**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Sacramento River						Left	33.58	10/05/2011 11/21/2011	John Williamson	
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
69	24.44	24.78	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.936282 ° -121.830192 °	38.940712 ° -121.830650 °	979 Y
70	24.44	24.44	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	38.936392 ° -121.830226 °	38.936392 ° -121.830226 °	61
71	25.04	25.04	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	38.942713 ° -121.834670 °	38.942713 ° -121.834670 °	62
72	25.76	26.54	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.952500 ° -121.837247 °	38.961135 ° -121.830902 °	981 Y
73	26.84	27.07	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.964850 ° -121.833595 °	38.968083 ° -121.833593 °	982 Y
74	27.63	27.78	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.972440 ° -121.825892 °	38.972848 ° -121.823098 °	983 Y
75	28.57	29.60	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.983081 ° -121.819924 °	38.988512 ° -121.806463 °	38
76	28.86	28.86	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	38.987126 ° -121.819366 °	38.987126 ° -121.819366 °	63
77	29.56	29.56	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2003 - New sedimentation and some new small toe scallops at the upstream end; downstream end has some new erosion. 2004 - Some new erosion at the toe and upper bank and some small new rotational failures (mainly minor, except at the downstream end). 2007 - Some new slumps. 2009 - Some new scallops and site was extended upstream. 2010 - New deposition along upstream end of site, however there is also new erosion throughout the site. Site seems to be worsening, and eroding fast. Large habitat for bank swallows. 2011: Some new minor erosion. [2011 Site ID: SAC_116-5_L]	39.003301 ° -121.805024 °	39.006072 ° -121.815926 °	49 Y
78	30.14	30.14	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	38.991429 ° -121.797811 °	38.991429 ° -121.797811 °	64
79	30.60	30.60	Earthen Levee	Encroachments	LS	PO	Landscaping	38.996980 ° -121.794723 °	38.996980 ° -121.794723 °	45 Y
80	30.62	30.62	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	38.997277 ° -121.794887 °	38.997277 ° -121.794887 °	65

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
81	30.91	30.91	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2000 - Eroding, vertical berm slope over a vertical cohesive toe; slow erosion but getting close to the toe. 2002 - Erosion is getting close to the levee, still eroding with some new small slumps. 2004 - Some minor new erosion. 2006 - Some new erosion, cleaned off older scars and slump faces. 2008 - New, small, partial rotational failure. 2011: Some new minor erosion. [2011 Site ID: SAC_116-0_L]	38.999745 ° -121.800898 °	39.001413 ° -121.802889 °	66 Y
82	32.71	33.00	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.012142 ° -121.825770 °	39.015585 ° -121.823442 °	60 Y
83	33.33	33.33	Earthen Levee	Encroachments	LS	PO	Buildings	39.019722 ° -121.820345 °	39.019722 ° -121.820345 °	46 Y
84	33.41	33.41	Earthen Levee	Encroachments	WS	PO	Buildings Inspector Comments: Pumping Plant Intake structure	39.020875 ° -121.820273 °	39.020875 ° -121.820273 °	48 Y
85	33.41	33.41	Earthen Levee	Encroachments	LS	PO	Buildings	39.020875 ° -121.820272 °	39.020875 ° -121.820272 °	47 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Fresh pile of firewood from this years prunings.	
johngw_f_20110923_394.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The firewood that was there last year has grown in size.	
johngw_f_20110923_395.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Land Side
Category	Earthen Levee
Item	Animal Control
This is one of serval rodent holes in the area.	
johngw_f_20110923_399.jpg	

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	2
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Land Side
Category	Earthen Levee
Item	Animal Control

There are multiple rodents hole in the area.

johngw\_f\_20110923\_400.jpg



Levee Mile Report Line	2
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Land Side
Category	Earthen Levee
Item	Animal Control

There are many rodent holes a short distance away from the last photo.

johngw\_f\_20110923\_401.jpg



Levee Mile Report Line	3
Start Levee Mile	0.05
End Levee Mile	0.32
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

The walnut trees need to be raised for visibility.

johngw\_f\_20110923\_432.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	5
Start Levee Mile	0.07
End Levee Mile	0.07
Location	Land Side
Category	Earthen Levee
Item	Animal Control
There are some old and a few new rodent holes that need to be backfill.	
johngw_f_20110923_386.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Firewood cut and piled at levee toe.	
johngw_f_20111007_843.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Animal Control
A view of a very large rodent hole on the waterside. Depression are on the crown.	
johngw_f_20111007_844.jpg	

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	7
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Animal Control

The depression appears to be in line with the rodent holes.

johngw\_f\_20111007\_845.jpg



Levee Mile Report Line	8
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Land Side
Category	Earthen Levee
Item	Animal Control

A series of rodent holes on the landside slope and toe of the levee.

johngw\_f\_20111007\_846.jpg



Levee Mile Report Line	10
Start Levee Mile	1.30
End Levee Mile	1.30
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The building is of a pumphouse.

johngw\_f\_20110923\_384.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	11
Start Levee Mile	1.32
End Levee Mile	1.32
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_SAC\_86-3\_L\_1.jpg



Levee Mile Report Line	11
Start Levee Mile	1.32
End Levee Mile	1.32
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_SAC\_86-3\_L\_2.jpg



Levee Mile Report Line	11
Start Levee Mile	1.32
End Levee Mile	1.32
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_SAC\_86-3\_L\_3.jpg

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	12
Start Levee Mile	1.34
End Levee Mile	1.34
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscape and retaining wall, this photo is from spring 2010.	
johngw_f_20110923_385.jpg	



Levee Mile Report Line	13
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
USACE2011_SAC_87-1_L_1.jpg	



Levee Mile Report Line	13
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
USACE2011_SAC_87-1_L_2.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	13
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_SAC\_87-1\_L\_3.jpg



Levee Mile Report Line	14
Start Levee Mile	2.39
End Levee Mile	2.39
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Old pipe left on the toe of the levee.

johngw\_f\_20111007\_847.jpg



Levee Mile Report Line	15
Start Levee Mile	2.57
End Levee Mile	3.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agricultural ditch, photo was taken in spring 2010.

johngw\_f\_20110923\_436.jpg

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	16
Start Levee Mile	3.22
End Levee Mile	3.22
Location	Water Side
Category	Earthen Levee
Item	Encroachments

A large tree branch has fallen across the toe of the levee.

johngw\_f\_20111007\_848.jpg



Levee Mile Report Line	17
Start Levee Mile	3.73
End Levee Mile	3.73
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The photo is of the abandoned pumphouse. The district has placed a steel plate over the old outlets. They have began filling the structure for safety.

johngw\_f\_20110923\_387.jpg



Levee Mile Report Line	18
Start Levee Mile	3.98
End Levee Mile	3.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments

A small building is encroaching into the landside levee toe.

johngw\_f\_20110923\_388.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	19
Start Levee Mile	4.01
End Levee Mile	4.01
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The landscape is planted into the encroachment zone within 15' of the toe.	
johngw_f_20110923_389.jpg	



Levee Mile Report Line	20
Start Levee Mile	4.03
End Levee Mile	4.03
Location	Water Side
Category	Earthen Levee
Item	Encroachments
The building is the new pumping plant for Sutter Mutual Water. This replaces the abanded one.	
johngw_f_20110923_390.jpg	



Levee Mile Report Line	22
Start Levee Mile	4.20
End Levee Mile	4.20
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The equipment shed encroaches into the toe of the levee.	
johngw_f_20110923_391.jpg	

**\* Location**

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CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	23
Start Levee Mile	4.65
End Levee Mile	4.65
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The landscape is planted within the encroachment area of 15'.

johngw\_f\_20110923\_392.jpg



Levee Mile Report Line	25
Start Levee Mile	5.38
End Levee Mile	5.38
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The landscape completely blocks the landside slope and toe.

johngw\_f\_20110923\_393.jpg



Levee Mile Report Line	26
Start Levee Mile	5.67
End Levee Mile	5.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Sting Rays Marina RV park, Photo was taken in spring 2010.

johngw\_f\_20110923\_430.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	26
Start Levee Mile	5.67
End Levee Mile	5.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Here is another look at Sting Razs Marina and RV park

johngw\_f\_20110923\_431.jpg



Levee Mile Report Line	26
Start Levee Mile	5.67
End Levee Mile	5.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Another view of Stingraz's RV park and entrance to the waterside business.

johngw\_f\_20111007\_849.jpg



Levee Mile Report Line	27
Start Levee Mile	7.15
End Levee Mile	7.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The land owner has piled prunings along the levee toe.

johngw\_f\_20111007\_850.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	28
Start Levee Mile	7.21
End Levee Mile	7.21
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees need to be trimmed to the height of 5 feet to see the slope.

johngw\_f\_20111007\_851.jpg



Levee Mile Report Line	29
Start Levee Mile	7.57
End Levee Mile	7.57
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Equipment along landside toe. Photo was taken in spring 2010.

johngw\_f\_20110923\_396.jpg



Levee Mile Report Line	30
Start Levee Mile	7.66
End Levee Mile	7.66
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscape shrubs, photo taken in spring 2010.

johngw\_f\_20110923\_397.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	31
Start Levee Mile	8.30
End Levee Mile	8.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_SAC\_92-8\_L\_1.jpg



Levee Mile Report Line	31
Start Levee Mile	8.30
End Levee Mile	8.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_SAC\_92-8\_L\_2.jpg



Levee Mile Report Line	31
Start Levee Mile	8.30
End Levee Mile	8.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_SAC\_92-8\_L\_3.jpg

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	32
Start Levee Mile	8.43
End Levee Mile	8.43
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

There has been some erosion along the roadside, need to repair the shoulder.

johngw\_f\_20110923\_433.jpg



Levee Mile Report Line	33
Start Levee Mile	8.79
End Levee Mile	8.79
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The corner of the building has encroached into the toe.

johngw\_f\_20110923\_398.jpg



Levee Mile Report Line	34
Start Levee Mile	9.14
End Levee Mile	9.14
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

There is a depression in the county road that is on the crown. This has been an on going issue for years according to the district. Fall 2011

johngw\_f\_20111122\_578.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	35
Start Levee Mile	11.43
End Levee Mile	11.43
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The homeowner has landscaped the levee slope.

johngw\_f\_20110923\_402.jpg



Levee Mile Report Line	36
Start Levee Mile	11.81
End Levee Mile	11.81
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_SAC\_95-8\_L\_1.jpg



Levee Mile Report Line	37
Start Levee Mile	11.93
End Levee Mile	11.93
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Concrete debris is being stockpiled on the slab of the old loading dock area.

johngw\_f\_20111007\_853.jpg



**\* Location**

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U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	39
Start Levee Mile	12.02
End Levee Mile	12.02
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_SAC\_96-2\_L\_1.jpg



Levee Mile Report Line	39
Start Levee Mile	12.02
End Levee Mile	12.02
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_SAC\_96-2\_L\_2.jpg



Levee Mile Report Line	40
Start Levee Mile	12.10
End Levee Mile	12.10
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Trees have been removed and the wood and prunings are piled on the waterside berm.

john\_gw\_f\_20111007\_854.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	41
Start Levee Mile	12.15
End Levee Mile	12.15
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The mobile home is the home of the operator for Sutter Municiple Water.

johngw\_f\_20110923\_405.jpg



Levee Mile Report Line	43
Start Levee Mile	12.55
End Levee Mile	12.55
Location	Land Side
Category	Earthen Levee
Item	Encroachments

There is equipment parked along the toe of the levee.

johngw\_f\_20110923\_406.jpg



Levee Mile Report Line	44
Start Levee Mile	12.93
End Levee Mile	12.93
Location	Crown
Category	Earthen Levee
Item	Encroachments

On top of the crown is farm equipment and irrigation pipe.

johngw\_f\_20110923\_407.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable

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CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	45
Start Levee Mile	13.15
End Levee Mile	13.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The buildings backside was built into the toe of the levee.	
johngw_f_20110923_408.jpg	



Levee Mile Report Line	46
Start Levee Mile	13.18
End Levee Mile	13.18
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Next to the building there are tires and axles stored at the toe.	
johngw_f_20110923_444.jpg	



Levee Mile Report Line	47
Start Levee Mile	13.98
End Levee Mile	14.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
USACE2011_SAC_99-0_L_1.jpg	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	47
Start Levee Mile	13.98
End Levee Mile	14.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_SAC\_99-0\_L\_2.jpg



Levee Mile Report Line	48
Start Levee Mile	14.09
End Levee Mile	14.09
Location	Crown
Category	Earthen Levee
Item	Encroachments

Firewood has been stacked on top of the levee crown.

johngw\_f\_20110923\_409.jpg



Levee Mile Report Line	49
Start Levee Mile	14.13
End Levee Mile	14.13
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of equipment. Photo was taken in spring 2010.

johngw\_f\_20110923\_410.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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U : Unacceptable

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CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	50
Start Levee Mile	14.35
End Levee Mile	14.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Building and wall into levee. Photo was taken in spring 2010.	
johngw_f_20110923_411.jpg	



Levee Mile Report Line	51
Start Levee Mile	14.39
End Levee Mile	14.39
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscape shrubs on shoulder. Photo was taken in spring 2010.	
johngw_f_20110923_412.jpg	



Levee Mile Report Line	52
Start Levee Mile	14.86
End Levee Mile	15.93
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Agricultural ditch, photo taken in spring 2010.	
johngw_f_20110923_437.jpg	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	53
Start Levee Mile	15.27
End Levee Mile	15.27
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Fence into levee toe, photo taken in spring 2010.

johngw\_f\_20110923\_404.jpg



Levee Mile Report Line	54
Start Levee Mile	15.27
End Levee Mile	15.27
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Rip rap and concrete debris, photo taken in spring 2010.

johngw\_f\_20110923\_403.jpg



Levee Mile Report Line	55
Start Levee Mile	15.94
End Levee Mile	15.94
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Farm equipment has been parked on the waterside berm.

johngw\_f\_20110923\_413.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	56
Start Levee Mile	16.48
End Levee Mile	16.48
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscape shrubs, photo taken in spring 2010.

johngw\_f\_20110923\_414.jpg



Levee Mile Report Line	57
Start Levee Mile	16.86
End Levee Mile	17.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agricultural ditch, photo taken in spring 2010.

johngw\_f\_20110923\_438.jpg



Levee Mile Report Line	58
Start Levee Mile	18.40
End Levee Mile	18.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_SAC\_103-4\_L\_1.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	58
Start Levee Mile	18.40
End Levee Mile	18.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_SAC\_103-4\_L\_2.jpg



Levee Mile Report Line	59
Start Levee Mile	18.50
End Levee Mile	18.50
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

This is an inside curve in the river and erosion has occurred.

johngw\_f\_20110923\_428.jpg



Levee Mile Report Line	59
Start Levee Mile	18.50
End Levee Mile	18.50
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

This is an upstream view of the same erosion.

johngw\_f\_20110923\_429.jpg

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	60
Start Levee Mile	18.51
End Levee Mile	18.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_SAC\_104-0\_L\_1.jpg



Levee Mile Report Line	60
Start Levee Mile	18.51
End Levee Mile	18.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_SAC\_104-0\_L\_2.jpg



Levee Mile Report Line	60
Start Levee Mile	18.51
End Levee Mile	18.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_SAC\_104-0\_L\_3.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	61
Start Levee Mile	19.19
End Levee Mile	19.19
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Building and wall into levee with landscape, photo taken in spring 2010.	
johngw_f_20110923_416.jpg	



Levee Mile Report Line	62
Start Levee Mile	19.22
End Levee Mile	19.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The groundcover is on the levee slope above the concrete retaining wall. The groundcover is irrigated.	
johngw_f_20110923_417.jpg	



Levee Mile Report Line	63
Start Levee Mile	19.24
End Levee Mile	19.24
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
USACE2011_SAC_104-5_L_1.jpg	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	64
Start Levee Mile	20.86
End Levee Mile	21.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Agricultural ditch, photo taken in spring 2010.	
johngw_f_20110923_439.jpg	



Levee Mile Report Line	67
Start Levee Mile	21.69
End Levee Mile	21.91
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The agricultural ditch runs along the toe of the levee.	
johngw_f_20110923_434.jpg	



Levee Mile Report Line	68
Start Levee Mile	24.04
End Levee Mile	24.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Pole barn and some equipment, photo taken in spring 2010.	
johngw_f_20110923_420.jpg	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	69
Start Levee Mile	24.44
End Levee Mile	24.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agricultural ditch, photo taken in spring 2010.

johngw\_f\_20110923\_440.jpg



Levee Mile Report Line	72
Start Levee Mile	25.76
End Levee Mile	26.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agricultural ditch, photo taken in spring 2010.

johngw\_f\_20110923\_441.jpg



Levee Mile Report Line	73
Start Levee Mile	26.84
End Levee Mile	27.07
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agricultural ditch, photo taken in spring 2010.

johngw\_f\_20110923\_442.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	74
Start Levee Mile	27.63
End Levee Mile	27.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agricultural ditch, photo taken in spring 2010.

johngw\_f\_20110923\_443.jpg



Levee Mile Report Line	77
Start Levee Mile	29.56
End Levee Mile	29.56
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_SAC\_116-5\_L\_1.jpg



Levee Mile Report Line	77
Start Levee Mile	29.56
End Levee Mile	29.56
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_SAC\_116-5\_L\_2.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	77
Start Levee Mile	29.56
End Levee Mile	29.56
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_SAC\_116-5\_L\_3.jpg



Levee Mile Report Line	77
Start Levee Mile	29.56
End Levee Mile	29.56
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #4

USACE2011\_SAC\_116-5\_L\_4.jpg



Levee Mile Report Line	79
Start Levee Mile	30.60
End Levee Mile	30.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The groundcover in the landscape makes it hard to see the levee slope.

johngw\_f\_20110923\_423.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	81
Start Levee Mile	30.91
End Levee Mile	30.91
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_SAC\_116-0\_L\_1.jpg



Levee Mile Report Line	81
Start Levee Mile	30.91
End Levee Mile	30.91
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_SAC\_116-0\_L\_2.jpg



Levee Mile Report Line	82
Start Levee Mile	32.71
End Levee Mile	33.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Older, unused agricultural ditch. Tree stump needs to be removed.

johngw\_f\_20110923\_435.jpg

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

Levee Mile Report Line	83
Start Levee Mile	33.33
End Levee Mile	33.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The building is within the easement of the levee toe.

johngw\_f\_20110923\_424.jpg



Levee Mile Report Line	84
Start Levee Mile	33.41
End Levee Mile	33.41
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The buildings are on the waterside of the crown. Control buildings for the pumping plant.

johngw\_f\_20110923\_426.jpg



Levee Mile Report Line	85
Start Levee Mile	33.41
End Levee Mile	33.41
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The building is the pumping plant for Sutter Municipal.

johngw\_f\_20110923\_425.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections****Levee Inspection Report By Mile - Fall 2011****Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	10/05/2011 11/21/2011	John Williamson

**\* Location**LS : Land Side  
WS : Water Side  
CR : Crown**\*\* Rating**A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor



**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 1500 Sutter Basin**

Waterway			Bank	Unit Miles
Unit No. 02 Sutter Bypass			Right	20.77
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/19/2011 - 4/19/2011		10/7/2011 - 10/7/2011	
DWR Inspector	John Williamson		John Williamson	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass					Right	20.77	10/07/2011 10/07/2011	John Williamson

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.01	0.01	Earthen Levee	Encroachments	WS	M	Equipment	38.761192 ° -121.674623 °	38.761192 ° -121.674623 °	12 Y
2	2.12	2.12	Earthen Levee	Animal Control	LS	C	Exterminate rodents and backfill and compact or grout burrows.	38.786589 ° -121.654364 °	38.786589 ° -121.654364 °	5
3	7.23	7.23	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	38.857847 ° -121.650808 °	38.857847 ° -121.650808 °	6
4	9.92	9.92	Earthen Levee	Trim / Thin Trees	WS	W	Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: A cottonwood tree has fallen on the waterside toe. It needs to be cut up. Repair the damage caused by the root ball at the toe.	38.893473 ° -121.636705 °	38.893473 ° -121.636705 °	8 Y
5	11.03	11.03	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact. Inspector Comments: This is a county road (Kirkville Rd) that crosses the levee. Truck traffic and County grading on the road has degraded the crown. Need to have AB material to reestablish the crown to proper grade. Some improvement has been made to crown of road.	38.909385 ° -121.639435 °	38.909385 ° -121.639435 °	17 Y
6	14.50	14.50	Concrete Floodwalls	Underseepage Relief Wells	LS	M	Inspector Comments: Relief well casing broken up and knocked over by a piece of equipment.	38.950673 ° -121.673060 °	38.950673 ° -121.673060 °	4 Y
7	15.74	15.74	Earthen Levee	Trim / Thin Trees	WS	C	Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: A cottonwood tree has fallen. Need to cut the tree up. Repair damage caused by the root ball at the toe.	38.963546 ° -121.689317 °	38.963546 ° -121.689317 °	9
8	16.08	16.08	Earthen Levee	Crown Surface / Depressions / Rutting	CR	W	Keep the crown roadway free of vegetation. Inspector Comments: The crown has low growing vegetation spotted throughout the unit. The crown needs to be sprayed in the fall to control the vegetation.	38.966637 ° -121.694278 °	38.966637 ° -121.694278 °	13 Y
9	18.46	18.46	Earthen Levee	Trim / Thin Trees	WS	C	Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: A cottonwood tree has fallen. Need to cut the tree up. Repair the damage caused by the root ball.	38.989641 ° -121.727622 °	38.989641 ° -121.727622 °	10
10	19.63	19.63	Earthen Levee	Trim / Thin Trees	WS	C	Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: A cottonwood tree has fallen. Need to cut up the tree. Repair the damage caused by the root ball.	39.005358 ° -121.735754 °	39.005358 ° -121.735754 °	11
11	19.96	19.96	Earthen Levee	Trim / Thin Trees	WS	W	Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Old cottonwood tree broke in half and fell on the toe need to cut up and remove.	39.010056 ° -121.737077 °	39.010056 ° -121.737077 °	14 Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.77	10/07/2011 10/07/2011	John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	0.01
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Farm equipment is stored on crown at L.M. 0.0	
johngw_f_20110923_582.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	0.01
Location	Water Side
Category	Earthen Levee
Item	Encroachments
This is another photo of equipment on levee crown.	
johngw_f_20110923_583.jpg	



Levee Mile Report Line	4
Start Levee Mile	9.92
End Levee Mile	9.92
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
A tree has been blown over and the roots have been up rooted. Need to repair the damage area.	
johngw_f_20110923_578.jpg	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.77	10/07/2011 10/07/2011	John Williamson

Levee Mile Report Line	4
Start Levee Mile	9.92
End Levee Mile	9.92
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

The tree needs to be cut up and the rootball area needs to be backfilled. Photo taken fall 2011.

johngw\_f\_20111007\_838.jpg



Levee Mile Report Line	5
Start Levee Mile	11.03
End Levee Mile	11.03
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

cross view of levee crown

johngw\_f\_20110923\_584.jpg



Levee Mile Report Line	5
Start Levee Mile	11.03
End Levee Mile	11.03
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

dip coming off the crown of levee

johngw\_f\_20110923\_585.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.77	10/07/2011 10/07/2011	John Williamson

Levee Mile Report Line	5
Start Levee Mile	11.03
End Levee Mile	11.03
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

The AB on the county rd has been pushed to the outside edge of the curve. The crown needs to be re-graded to raise the depression.

johngw\_f\_20111007\_839.jpg



Levee Mile Report Line	6
Start Levee Mile	14.50
End Levee Mile	14.50
Location	Land Side
Category	Concrete Floodwalls
Item	Underseepage Relief Wells

The relief well casing needs to be repaired.

johngw\_f\_20111007\_840.jpg



Levee Mile Report Line	8
Start Levee Mile	16.08
End Levee Mile	16.08
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Low growing vegetation is on the crown.

johngw\_f\_20111007\_841.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1500 Sutter Basin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.77	10/07/2011 10/07/2011	John Williamson

Levee Mile Report Line	11
Start Levee Mile	19.96
End Levee Mile	19.96
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

The cottonwood tree needs to be cut up and removed off the toe.

johngw\_f\_20111007\_842.jpg



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